Aztech Technologies, Inc.

EXPERTISE YOU CAN COUNT ON

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Mr. Donald E Duthaler, JR, P.E.
Baker Capital
Director of Property Management
One West Red Oak Lane
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Don,

Listed below is the data input into the New York State Department of Environmental Conservation's "DAR-1" (Air Guide-1) version 3.6 DOS based software program for calculating ambient air quality impact screening analysis from a single or multiple sources. Found below some of the input data are the sources from which that data was obtained.

Location Code – 552200 – Westchester County – Cortlandt (Town) SWIS Codes NYSGIS Clearinghouse
http://www.nysgis.state.ny.us/coordinationprogram/workgroups/wg_1/related/spcodes/swis.htm
Facility Code – (enter to assign previous code) assume facility code is "Blank"
Facility Name – Baker Property
Facility Address – 510 Furnace Dock Rd. Cortlandt Manor, NY
Facility Town – Cortlandt Manor
Standard Industrial Code - 3471 Electroplating, Plating, Polishing, Anodizing, and Coloring
http://www.osha.gov/pls/imis/sic_manual.display?id=737&tab=description
Enter Emission Point Number – Enter "Total" to imput facility emission totals or perform worst case analysis for a point source. – TOTAL
Enter Source Code Default=blank – (Blank)
UTME converted from 41-16-25.90 North 73-52-08.58 West to Zone 18 Easting – 594721 Northing – 4569776
What would you like the annual emissions in? Lb/year or tons/year – LBY
Number of pollutants – 1
CAS number – 0007901-6
Sample Results:
SV-11 = 1300 µg/m3 = (1.3mg/m³)(24.45) / 131.39 g/mol^-1 (molar mass) = 0.242 ppm
SV-12 – 65,000 µg/m3 = (65mg/m³)(24.45) / 131.39 g/mol^-1 (molar mass) = 12.095 ppm
Assume discharge rate from 1 fan is 10.3 CFM = 17.5 CM/hr
Discharge mass based on worst case analytical = (65mg/m³)(17.5CM/hr) = 1,137.5 mg/hr
Emissions = 1 mg = 2.2056 x 10^-6 lbs = 1,137.5mg/hr = 0.0025 lb per hour/21.9 lb/yr/0.011 tons/yr
Height Above Structure = 4ft
Stack Height = 4 ft
Inside diameter = 3"
Exit temperature = 68 deg F
Exit Velocity = 7.9 ft/sec
Exit flow rate = 23.27 ACFM
Assumed Stack to Property Line = 50 ft
Approx building width = 75 ft
Approx building length 210 ft
Assumed direction of building 360°
USE annual guideline concentration of 0.08 ppb or 0.00008 ppm or [(8e-5)(131.39g/mol^-1)]/24.45 = 0.0004299 mg/m^3 = 0.4299 µg/m3
http://www.dec.ny.gov/chemical/23799.html

Please feel free to contact me with any questions.

Thank you,

Joseph Sabanos
Aztech Technologies, Inc.